



#### QUALIFICATIONS PACK - OCCUPATIONAL STANDARDS FOR ELECTRONICS INDUSTRY

## What are Occupational Standards(OS)?

- Solution OS describe what individuals need to do, know and understand in order to carry out a particular job role or function
- OS are performance standards that individuals must achieve when carrying out functions in the workplace, together with specifications of the underpinning knowledge and understanding

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#### Introduction

### Qualifications Pack-Field Technician (Networking and Storage)

**SECTOR:** ELECTRONICS

**SUB-SECTOR:** IT Hardware

**OCCUPATION:** After Sales Support

REFERENCE ID: ELE/Q4606

ALIGNED TO: NCO-2004/ NIL

**Field Technician:** Also called 'Service Technician', the Field Technician provides after sale support services to customers, typically, at their premises.

**Brief Job Description:** The individual at work is responsible for attending to customer complaints, installing newly purchased products, troubleshooting system problems and, configuring hardware equipment such as servers, storage and other related networking devices.

**Personal Attributes:** The job requires the individual to have: ability to build interpersonal relationships, customer centric approach and critical thinking. The individual must be willing to travel to client premises in order to attend to calls at different locations.

24/03/14

24/03/15

Last reviewed on

**Next review date** 

**Sub-sector** 

Occupation





# Qualifications Pack Code ELE/Q4606 Job Role Field Technician – Networking and Storage Credits(NVEQF/NVQF/NSQF) TBD Version number 1.0 [OPTIONAL] Electronics Drafted on 22/01/14

Qualifications Pack For Field Technician – Networking and Storage

**IT Hardware** 

**After Sales Support** 

Job Role	Field Technician – Networking and Storage
	Also called 'Service Technician'
Role Description	Installing and configuring the networking, servers and storage systems, and attending to field calls from client and complaints for system trouble shooting and repairs
NVEQF/NVQF level	4
Minimum Educational Qualifications	Diploma (Electrical, Electronics & Communications, Computer Science, IT and related)
Maximum Educational Qualifications	B.E. (Electrical, Electronics & Communications, Computer Science, IT and related)
Training	Certificate - server and storage equipment management
Experience	1 year as Field Technician - computing and peripherals experience is desirable
	Compulsory:
Applicable National Occupational Standards (NOS)	<ol> <li>ELE/N4601 Engage with customer</li> <li>ELE/N4612 Install, configure and setup the networking and storage system</li> <li>ELE/N4613 Troubleshoot and fix equipment</li> <li>ELE/N9909 Coordinate with colleagues and co-workers</li> </ol> Optional:
	Not applicable
Performance Criteria	As described in the relevant OS units









## National Occupational Standard



#### **Overview**

This unit is about interacting with customer and understanding the repair and installation requirements for networking, storage or server equipment.







ELE/N4601	Engage with customers
Unit Code	ELE/N4601
Unit Title (Task)	Engage with customers
Description	This OS unit is about interacting with and understanding the customers' requirements
Scope	<ul> <li>This unit/ task covers the following:</li> <li>Interact with the customer prior to visit</li> <li>Understand customer's requirements prior to and on visit</li> <li>Suggest possible solutions</li> <li>Complete the documentation</li> <li>Achieve productivity and quality as per company's norms</li> </ul>
Performance Criteria(F	PC) w.r.t. the Scope
Element	Performance Criteria
Interacting with customer	To be competent, the user/ individual must be able to:  PC1. call the customer based on inputs logged into customer care  PC2. greet the customer and listen to their problem attentively

Performance Criteria(P	PC) w.r.t. the Scope
Element	Performance Criteria
Interacting with	To be competent, the user/ individual must be able to:
customer	PC1. call the customer based on inputs logged into customer care
	PC2. greet the customer and listen to their problem attentively
	PC3. check with customer about time for visit, field work and confirm location
	PC4. follow etiquette when interacting with customers as per company policy
	such as politeness and patience
	PC5. seek feedback from the customers on completion of work
Understanding	To be competent, the user/ individual must be able to:
customer's	PC6. understand location requirement for placement of system during and after
requirements	installation
	PC7. seek inputs to understand symptoms for the problem faced
	PC8. ask open and close-ended questions to understand the specific problem
	PC9. inform customer about the replacement or repair process
	PC10. enquire about warranty coverage
	PC11. educate about other useful products and annual maintenance contract
Suggesting solutions	To be competent, the user/ individual must be able to:
	PC12. summarise the problem to customer and suggest the possible solutions
	PC13. inform customers on whether the module has to be replaced or repaired
	with reasons
	PC14. explain the customers on time taken, repair process and possible cost for the
	service or inclusion under warranty
	PC15. seek customer's approval for further service
Completing	To be competent, the user/ individual must be able to:
documentation	PC16. provide note to customers about the problem(s), actions taken and the cost
	associated and retain a copy
	PC17. provide appropriate invoice for any purchase of module or parts by customer
Achieving	To be competent, the user/ individual must be able to:
productivity and	PC18. interact with customer in time and within the specified Service Level







ELE/N4601	Engage with customers
quality	Agreement (SLA) time PC19. identify the customer's requirement and available the resources and record PC20. accurately assess the problem and suggest appropriate solutions
	PC21. offer the 100% service as per customer's requirements PC22. communicate problem effectively in order to secure customer's confidence PC23. gauge customer satisfaction with the installation and placement of device PC24. Achieve zero repeat or second escalation from customer
	PC25. achieve customer satisfaction on engagement behaviour such as listening to complaints or appropriate dressing PC26. achieve 100% customer satisfaction and positive feedback
Knowledge and Unders	
A. Organizational Context (Knowledge of the company / organization and its processes)	The individual on the job needs understand:  KA1. company's policies on: customer care  KA2. company's code of conduct  KA3. organisation culture and typical customer profile  KA4. company's reporting structure  KA5. company's documentation policy
B. Technical Knowledge	The individual on the job needs to know and understand:  KB1. company's products and recurring problems reported  KB2. how to communicate with customers in order to put them at ease  KB3. basic electrical and electronics of system hardware  KB4. hardware maintenance  KB5. functions of electrical and mechanical parts or modules of the equipment  KB6. behavioural aspects and etiquette to be followed at customer's premises  KB7. precautions to be taken while handling field calls and dealing with customers  KB8. relevant reference sheets, manuals and documents to carry in the field
Skills (S) [Optional]	
A. Core Skills/ Generic Skills	Reading and writing skills  The individual on the job needs to know and understand:  SA1. how to read product and module serial numbers and interpret details such as make, date, availability  SA2. how to note problems on job sheet and details of work done
B. Professional Skills	Interpersonal skills
	The individual on the job needs to know and understand:  SB1. how to develop a rapport with customers  SB2. how to listen carefully and interpret their requirement  SB3. how to suggest customer on possible solutions
	Communication skills  The individual on the job needs to know and understand:
	SB4. how to seek inputs at assess the problems SB5. how to put the customer at ease and suggest solutions SB6. how to communicate in local language SB7. how to educate and inform customer about contractual issues such as
	warranty, cost of service and module replacement







ELE/N4601	Engage with customers
	SB8. how to educate on precautions to be taken post repairs to avoid recurrence
	of problem
	Behavioural skills
	The individual on the job needs to know and understand:
	SB9. importance of personal grooming
	SB10. significance of etiquette such as maintaining the appropriate physical
	distance with customer during conversation, not entering bedroom without
	permission
	SB11. importance of being patient and courteous with all types of customers
	SB12. being polite and courteous under all circumstances
	Decision making skills
	The individual on the job needs to know and understand:
	SB13. whether interaction of customer with supervisor is necessary or not
	SB14. when to call customer care and close the call after work is done to
	customer's satisfaction and documentation is complete







#### **Engage with customers**

#### **NOS Version Control**

NOS Code		ELE/N4601	
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	1.0
Industry	Electronics	Drafted on	22/01/14
Industry Sub-sector	IT Hardware	Last reviewed on	24/03/14
		Next review date	24/03/15

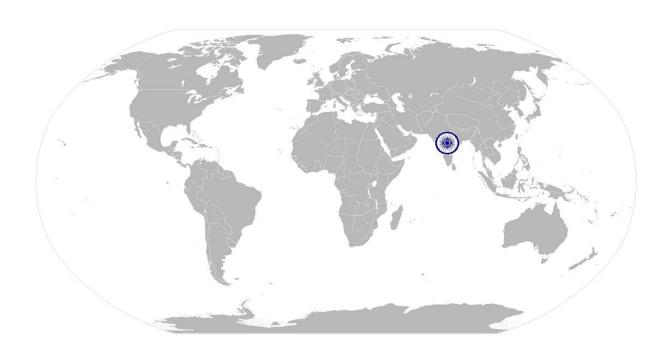






Install, configure and setup the networking and storage system

## National Occupational Standard



#### **Overview**

This unit is about installing the networking, servers and storage equipment as per the customer's requirement. It includes configuring and setting up the system and ensuring effective system functioning to satisfy the customer.







ELE/N4612	Install, configure and setup the networking and storage system
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Unit Code	ELE /N4602
Unit Title (Task)	Install, configure and setup the networking and storage system
Description	This OS unit is about installing the system, configuring and setting it up to make it ready to work on
Scope	<ul> <li>This unit/ task covers the following:</li> <li>Understand the installation requirement and install the hardware</li> <li>Configure and setup the network, servers and storage system</li> <li>Check system functionality</li> <li>Set up the software</li> <li>Complete the installation task and report</li> <li>Interact with customer</li> <li>Interact with superior</li> <li>Achieve productivity and quality as per company's norms</li> </ul>

#### Performance Criteria(PC) w.r.t. the Scope

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Element	Performance Criteria
Installing the	To be competent, the user/ individual must be able to:
networking, servers	PC1. check site conditions
and storage devices	PC2. check and ensure any tailor-made system as required by the customer
	PC3. understand the system design
	PC4. open the packaging of new product and take out the hardware carefully
	PC5. connect all the hardware devices such as servers, storage device, networking
	devices
	PC6. connect battery, plug in and switch on the system
	PC7. follow standard operating procedure while handling hardware modules with
	recommended material handling procedure
	PC8. follow the standard operating procedure for installation of each model of
	hardware devices and comply with them
	PC9. place the system at a location as preferred by customer
	PC10. understand any temperature requirement for the servers and ensure compliane
	PC11. install the servers / storage equipment as per standard operating procedure
	PC12. install the networking device as per standard operating procedure
	PC13. ensure that appropriate device and model specific procedure is followed as
	per installation manual PC14. maintain zero-material defect during material handling by following standard
	PC14. maintain zero-material defect during material handling by following standard operating procedure
	,
Configuring and	PC15. carry tools and manuals as per installation manual  To be competent, the user/ individual must be able to:
setting up the	PC16. understand the system design requirements of customers and ensure all
~ .	hardware equipment are available
system	·
	PC17. understand the type of design architecture to be used in the system







ELE/N4612	Install,	configure and setup the networking and storage system
		integration
	PC18.	configure networking device such as router by building a configuration file
	PC19.	log and upload the configuration of networking equipment
	PC20.	ensure all the computing system are connected with the storage equipment
	PC21.	follow the safety procedures while handling and installing the equipment
	PC22.	install and configure peripherals as standard operating procedure
	PC23.	ensure the placement of all hardware equipment are as per customer
		requirement
Setting up Software		ompetent, the user/ individual must be able to:
	PC24.	install the appropriate application software as per the server and storage
		requirement
	PC25.	load the appropriate networking device driver and set the device in the
		system
	PC26.	install ERP related software package as per client requirement
	PC27.	install additional software as per customer requirement
	PC28.	ensure that only authorised and licensed version of software is installed
Checking system		ompetent, the user/ individual must be able to:
functionality	PC29.	connect the networking device, servers or storage and check system
		functions
	PC30.	perform unit and integration testing as per design requirement
	PC31.	ensure product functions are tested and demo given to the customer after
		hardware, software, and peripheral integration with reference to the
	DC22	installation manual
Commissions	PC32.	ensure that client is satisfied
Completing installation	PC33.	ompetent, the user/ individual must be able to:
IIIStaliation	PC33.	measure and meet multipart calls norm against benchmark complete the installation within the agreed Turn Around Time (TAT)
	PC34.	complete the installation within the agreed furn Around Time (TAT)
	PC36.	complete the task with the quality benchmark of the company
Interacting with		ompetent, the user/ individual must be able to:
customer	PC37.	understand the customer requirement and queries on the hardware
customer	PC38.	educate customer on use of and procedures to be followed in operation of
	1 030.	hardware
	PC39.	inform customer about warranty and other terms and conditions on the
	1 655.	hardware devices
	PC40.	provide adequate information about the hardware devices, operating
		procedure, maintenance, temperature control, etc., to the customer
	PC41.	address the queries and issues raised by the customer on device
	PC42.	inform customers clearly about warranty, and product terms and conditions
	PC43.	provide customers on all the appropriate documents including invoice
Interacting with	PC44.	understand the work requirement from superior, periodically
superior	PC45.	report to superior on the work completed
	PC46.	escalate the customer issues and problems that cannot be handled at field
		level
	PC47.	document the work completed on the company ERP software for tracking
		and future references







To be competent, the user/ individual must be able to: PC48. achieve 100% on-time completion of field installation with reference to agreed target and time PC49. submit feedback form on customer satisfaction level with respect to the product installation PC50. find solutions to customer complaints and queries unresolved in the field PC51. report work status and prepare documentation as per company standards  Cnowledge and Understanding (K)  A. Organizational Context (Knowledge of the company / organization and its processes)  KA2. company's sales and after sales support policy KA3. importance of the individual's role in the workflow KA4. reporting structure KA5. company's policy on product's warranty and other terms and conditions KA6. company's line of business and product portfolio KA7. client database and their location KA8. Service Level Agreement (SLA) with client on Turn Around Time and quality parameters  The individual on the job needs to know and understand: KB1. basic electronics involved in the hardware KB2. different types of IT hardware products and functionalities KB3. functions of electrical and mechanical parts/ modules KB4. typical customer profile KB5. company's portfolio of products and that of competitors
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KB5. company's portfolio of products and that of competitors
KB6. installation procedures given in the manuals
KB7. different types of servers, storage, networking devices offered by the
company
KB8. different types of servers and storage hardware equipment and their
standard installation procedure
KB9. specification and the procedures to be followed for configuration and setting
up the server system
KB10. design architecture for system configuration
KB11. networking of devices
KB12. different types of networking devices, their functionality
KB14. how to operate the system and other hardware peripherals
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#### ELE/N4612 Install, configure and setup the networking and storage system

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Skills (S) [Optional]			
A. Core Skills/	Reading and writing skills		
Generic Skills	The user/individual on the job needs to know and understand how:		
	SA1. to read job sheet and/or complaints received by customer care		
	SA2. to document the completed work		
	SA3. to note customer complaints solution provided		
	SA4. to read the standard operating procedures for different equipment		
	3711. to read the standard operating procedures for americal equipment		
	Teamwork and multitasking		
	The user/individual on the job needs to know and understand how:		
	SA5. to share work load as required		
	SA6. to achieve the targets given on service and sales		
B. B. G.			
B. Professional Skills	Hardware and Software operation skills		
	The user/individual on the job needs to know and understand how to:		
	SB1. operate computer and laptop		
	SB2. operate the peripheral hardware		
	SB3. operate the different software appropriate to server system		
	SB4. configure different settings and installations of hardware and software as		
	per customer requirement		
	per sustament requirement		
	Networking, Servers and storage hardware related skills		
	The user/individual on the job needs to know and understand how:		
	SB5. to connect all networking devices as per system requirement		
	SB6. networking, its purpose and functionalities to assemble and set up server		
	and storage system		
	SB7. different hardware modules in the servers and storage equipment		
	SB8. to identify basic electronic components and know their functions		
	Solid to rachtiny saste electronic components and know their randoms		
	Using tools and machines		
	The user/individual on the job needs to know and understand how:		
	SB9. to operate electronic screw drivers for installation of equipment		
	SB10. to use other specific devices for installation of peripherals		
	Reflective thinking		
	The user/individual on the job needs to know and understand how:		
	SB11. to improve work processes		
	SB12. to reduce repetition of errors		
	Critical thinking		
	The user/individual on the job needs to know and understand how:		
	SB13. to spot process disruptions and delays		
	SB14. to report on any customer concerns to superiors without delay		







#### Install, configure and setup the networking and storage system

#### **NOS Version Control**

NOS Code	ELE/N4612		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	1.0
Industry	Electronics	Drafted on	22/01/14
Industry Sub-sector	IT Hardware	Last reviewed on	24/03/14
		Next review date	24/03/15

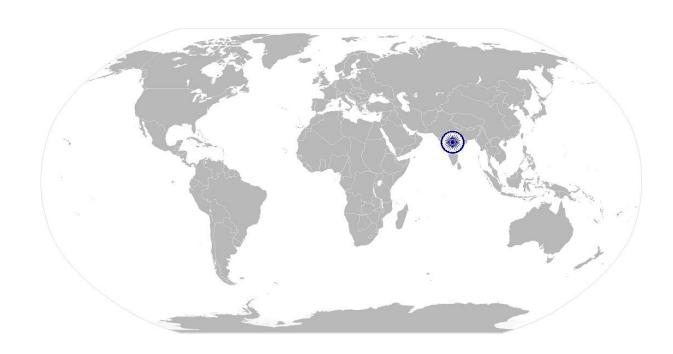






#### **Troubleshoot and fix equipment**

## National Occupational Standard



#### **Overview**

This unit is about troubleshooting hardware related problems in networking, servers and storage equipment by diagnosing and replacing faulty module at client's premises.







#### ELE/N4613 Troubleshoot and fix equipment

Unit Code	ELE /N4613			
Unit Title (Task)	Troubleshoot and replace faulty module in the equipment			
Description	This OS unit is about diagnosing the problem and troubleshooting problems in the networking and storage system			
Scope	<ul> <li>This unit/ task covers the following:</li> <li>Receive and understand the customer complaint registered at customer care</li> <li>Identify system problems on field visit</li> <li>Replace faulty module after diagnosis</li> <li>Coordinate with Remote Technical Helpdesk for assistance</li> <li>Interact with customer</li> <li>Report to Superior</li> </ul>			

#### Performance Criteria(PC) w.r.t. the Scope

Element	Performance Criteria		
Understanding	To be competent, the user/ individual must be able to:		
customer complaint	PC1. listen carefully to concerns registered by customer at customer care		
	PC2. interact with customer on telephone for better understanding of concern		
	before the visit		
	PC3. commence field trip based on type of complaint		
	PC4. understand the Turn Around Time (TAT) as per the Service Level Agreement (SLA)		
	PC5. carry the troubleshooting instructions sheets		
	PC6. understand the warranty, terms and conditions with relation to the product		
	PC7. identify the type of problem and carry relevant tools and equipment based		
	customer complaint and standard operating procedure		
	PC8. assess whether replacement or repair of module may be required		
	PC9. ensure timely reporting and maintain punctuality		
	PC10. carry only 100% approved and verified field replaceable parts for repairing or		
	replacing		
	PC11. decide on whether it can be repaired in field or at company's test centre		
Identifying system-	To be competent, the user/ individual must be able to:		
level problem on	PC12. understand the frequently encountered problems in the storage system and		
field	solution for them		
	PC13. understand the problems experienced by the customer		
	PC14. conduct root-cause analysis and identify the likely problem area		
	PC15. diagnose the issue in networking device		
	PC16. confirm all the issues in the storage by conducting standard diagnostics		
	procedure		
	PC17. coordinate with remote technical team to diagnose and confirm the issues		
	faced in the storage system		
	PC18. disassemble and check each part of networking, servers / storage system to		
	isolate the failed module		







ELE/N4613		Troubleshoot and fix equipment			
	PC19.	follow standard operating procedure while handling hardware modules such			
		as handling PCB with ESD standards			
	PC20.	make decision on whether the part can be replaced or component should be			
		repaired			
	PC21.	identify the solution design where the module to be replaced or software to			
		be installed or updated			
	PC22.	ecide on whether to replace module or send to repair centre			
Replacing faulty	To be co	ompetent, the user/ individual must be able to:			
module	PC23.	if the module has to be replaced, disassemble the system, remove and			
		replace and re-assemble the system			
	PC24.	if soldering needs to be done, use manual hand soldering iron unit to solder			
		the components or parts			
	PC25.	if there is any operating system error, software related issues, reinstall the			
		software or fix the issues			
	PC26.	fix the common problems faced with peripherals and networking devices			
	PC27.	escalate the problems which cannot be addressed at field level to the			
		superior for servicing at company's repair stations			
	PC28.	coordinate with remote technical helpdesk to seek technical assistance in			
		the field			
	PC29.	explain clearly the symptoms in the system to the remote technical helpdesk			
		and perform the work as per their instructions			
	PC30.	perform diagnosis and troubleshooting as per remote technical helpdesk			
		instructions			
	PC31.	follow appropriate safety procedures while handling tools such as soldering			
		iron			
	PC32.	ensure system function is tested after new hardware modules or software is			
		installed			
Completing repair		ompetent, the user/ individual must be able to:			
	PC33.	understand clearly the requirement before field visit			
	PC34.	report percentage of call closure in multiple visits against benchmark			
	PC35.	ensure no sub-standard or unverified parts are used in replacing			
	PC36.	attend to the client location as per the time decided in the service level			
		agreement with the client			
	PC37.	complete the function within the agreed Turn Around Time (TAT) and as per			
		the Service level agreement with the client			
	PC38.	complete the call closure in single visit			
	PC39.	complete the task with the quality benchmark of the company			
	PC40.	meet monthly or daily target given			
Interacting with	To be competent, the user/ individual must be able to:				
customer	PC41.	inform customer about the problem, action to be taken			
	PC42.	inform customer on adequate information about hardware device or			
		software			
	PC43.	instruct customer on use of and procedures to be followed for operating the			
		system or hardware			
	PC44.	confirm acceptance before replacing module or sending for repairs to			
		company			
	PC45.	inform customer about warranty and other terms and conditions on the			







ELE/N4613	Troubleshoot and fix equipment
	replaced or repaired hardware devices
	PC46. provide relevant documents to customers on completion of work
	PC47. achieve 100% satisfaction with customer on post sales service
Reporting to	To be competent, the user/individual must be able to:
superior	PC48. receive the work order from the superior or customer care about the
	complaint registered
	PC49. report on the work load and completion status
	PC50. find solutions to customer complaints and queries that are unresolved in the field
	PC51. escalate the problems that cannot be resolved at field level with reason
	PC52. report 100% on time completion of field repair or hardware replacement
	with reference to agreed target and time or reasons for not meeting target
	PC53. submit the feedback form on customer satisfaction level with respect to the product repair
	PC54. accurately report work status through proper documentation as per company's standards
	PC55. create knowledge bank on the complex repairs made through
	documentation
Knowledge and Unders	standing (K)
A. Organizational	The individual on the job needs to know and understand:
Context	KA1. company's policies on: incentives, delivery standards, and personnel
(Knowledge of the	management
company /	KA2. company's sales and after sales support policy
organization and	KA3. importance of the individual's role in the workflow
_	KA4. reporting structure
its processes)	KA5. company's policy on product's warranty and other terms and conditions
	KA6. company's line of business and product portfolio
	KA7. client database and their location
	KA8. Service Level Agreement (SLA) with client on Turn Around Time and quality
B. Technical	parameters  The individual on the job needs to know and understand:
Knowledge	KB1. company's portfolio of products
	KB2. different types of IT hardware products and functionalities
	KB3. different electrical and mechanical modules in the product
	KB4. basic electronics of the hardware
	KB5. different models of devices and their repair procedures
	KB6. standard operating procedure for disassembling and re-assembling of
	hardware equipment
	KB7. procedures to be followed for trouble shooting and standards to follow
	KB8. voltage and power requirement for different hardware devices
	KB9. servers, storage and network devices
	KB10. ERP software application and its installation procedure
	KB11. frequently occurring issues in storage and server device and measures to be taken
	KB12. tools required for repair such as soldering iron, multimeter
	MD42

controls of different peripherals

KB13.







ELE/N4613	Troubleshoot and fix equipment			
	KB14. all safety procedures to follow			
	KB15. quality standards to be followed			
	KB16. Electrostatic Discharge (ESD) and measures to be taken			
Skills (S) [Optional]				
A. Core Skills/	Reading and writing skills			
Generic Skills	The user/individual on the job needs to know and understand how:			
	SA1. to read job sheet and/or complaints registered at customer care			
	SA2. to document the completed work			
	SA3. to note customer complaints and solution provided			
	SA4. to read the standard operating procedure manual for different equipment			
	Teamwork and multitasking			
	The user/individual on the job needs to know and understand how:			
	SA5. to share work load as required			
	SA6. to achieve the target			
B. Professional Skills	Hardware operating skills			
	The user/individual on the job needs to know and understand how to:			
	SB1. operate computer and laptop			
	SB2. operate the peripheral hardware equipment			
	SB3. operate the different software			
	SB4. configure different settings and installations of hardware and software as			
	per customer requirement			
	Networking, servers and storage hardware equipment related skills			
	The user/individual on the job needs to know and understand:			
	SB5. different modules and their functions in storage systems			
	SB6. different types of networking devices and their functionalities			
	SB7. how to diagnose the issues in servers and storage hardware modules			
	SB8. how to diagnose the issues in networking device			
	SB9. how to assemble modules in networking, servers and storage system			
	Using tools and machines			
	The user/individual on the job needs to know and understand how to:			
	SB10. operate electronic screw drivers for disassembling and assembling of			
	hardware equipments			
	SB11. use other specific devices for repairs such as soldering iron, multimeter,			
	POST cards			
	Reflective thinking			
	The user/individual on the job needs to know and understand how to:			
	SB12. improve work processes			
	SB13. reduce errors on field and repeat trips			







#### ELE/N4613 Troubleshoot and fix equipment

ELE/114015	Troubleshoot and hix equipment		
	Critical thinking		
	The user/individual on the job needs to know and understand how to:  SB14. spot process disruptions and delays		
	SB15. report on any issues raised by customers to superiors without delay		







#### Troubleshoot and fix equipment

#### **NOS Version Control**

NOS Code	ELE/N4613		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	1.0
Industry	Electronics	Drafted on	22/01/14
Industry Sub-sector	IT Hardware	Last reviewed on	24/03/14
		Next review date	24/03/15

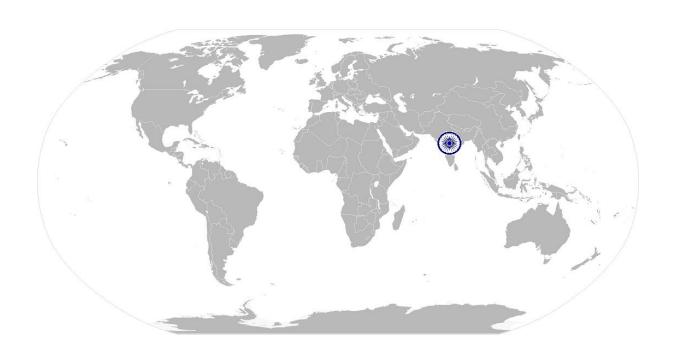






Coordinate with colleagues and co-workers

### **National Occupational** Standard



#### **Overview**

This unit is about the individual's level of communication with colleagues and other departments within the organisation. It determines the ability to work as a team member to achieve the required deliverables on schedule.



### National Occupational Standards



LE/N9909	Coordinate with colleagues and co-workers			
Unit Code	ELE/N9909			
Unit Title (Task)	Coordinate with colleagues			
Description	This OS unit is about communicating with colleagues and seniors in order to achieve smooth work flow			
Scope	This unit/ task covers the following:			
	Interact with supervisor or superior			
	Coordinate with colleagues			
Performance Criteria(P	C) w.r.t. the Scope			
Element	Performance Criteria			
Interacting with	To be competent, the user/ individual must be able to:			
supervisor	PC1. understand and assess work requirements			
	PC2. understand the targets and incentives			
	PC3. understand new operating procedures and constraints			
	PC4. report problems in the field PC5. resolve personnel issues			
	PC6. receive feedback on work standards and customer satisfaction PC7. communicate any potential hazards at a particular location			
	PC8. meet given targets			
	PC9. deliver work of expected quality despite constraints			
	PC10. receive positive feedback on behaviour and attitude shown during			
	interaction			
Coordinating with	To be competent, the user/ individual must be able to:			
colleagues	PC11. interact with colleagues from different functions and understand the nature of their work			
	PC12. receive spares from tool room or stores; deposit faulty modules and tools to stores			
	PC13. pass on customer complaints to colleagues in a respective geographical area			
	PC14. assist colleagues with resolving field problems, conflicts and achieve smooth workflow			
	PC15. follow the company policy during cross functional interaction			
Knowledge and Unders	, ,, ,			
A. Organizational	The individual on the job needs to know and understand:			
Context	KA1. company's policies on: incentives, delivery standards, and personnel			
(Knowledge of the	management			
company /	KA2. importance of the individual's role in the workflow			
organization and	KA3. reporting structure			
its processes)				
its processes)				







#### LE/N9909 Coordinate with colleagues and co-workers

B. Technical Knowledge		The individual on the job needs to know and understand:  KB1. how to communicate effectively		
		KB2. how to build team coordination		
Ski	lls (S) [Optional]			
A.	A. Core Skills/ Teamwork and multitasking			
	Generic Skills	The individual on the job needs to know and understand how:		
		SA1. to deliver product to next work process on time		
В.	<b>Professional Skills</b>	Decision making		
		The individual on the job needs to know and understand:		
		SB1. how to report potential areas of disruptions to work process		
		SB2. when to report to supervisor and when to deal with a colleague depending		
		on the type of concern		
		Reflective thinking		
		The individual on the job needs to know and understand:		
		SB3. how to improve work process		
		Critical thinking		
		The individual on the job needs to know and understand:		
		SB4. how to spot process disruptions and delays		







#### Coordinate with colleagues and co-workers

#### **NOS Version Control**

NOS Code	ELE/N9909		
Credits(NVEQF/NVQF/NSQF) [OPTIONAL]	TBD	Version number	1.0
Industry	Electronics	Drafted on	22/01/14
Industry Sub-sector	IT Hardware	Last reviewed on	24/03/14
		Next review date	24/03/15





#### $Qualifications\ Pack\ For\ Field\ Technician-Networking\ and\ Storage$

Keywords /Terms	Description		
Sector	Sector is a conglomeration of different business operations having similar business and interests. It may also be defined as a distinct subset of the economy whose components share similar characteristics and interests.		
Sub-sector	Sub-sector is derived from a further breakdown based on the characteristics and interests of its components.		
Occupation	Occupation is a set of job roles, which perform similar/ related set of functions in an industry.		
Function	Function is an activity necessary for achieving the key purpose of the sector, occupation, or an area of work, which can be carried out by a person or a group of persons. Functions are identified through functional analysis and form the basis of OS.		
Sub-function	Sub-functions are sub-activities essential to fulfil the achieving the objectives of the function.		
Job role	Job role defines a unique set of functions that together form a unique employment opportunity in an organisation.		
Occupational Standards (OS)	OS specify the standards of performance an individual must achieve when carrying out a function in the workplace, together with the knowledge and understanding they need to meet that standard consistently. Occupational Standards are applicable both in the Indian and global contexts.		
Performance Criteria	Performance criteria are statements that together specify the standard of performance required when carrying out a task.		
National Occupational Standards (OS)	NOS are occupational standards which apply uniquely in the Indian context.		
Qualifications Pack (QP)	QP comprises the set of OS, together with the educational, training and other criteria required to perform a job role. A QP is assigned a unique qualifications pack code.		
Unit Code	Unit code is a unique identifier for an Occupational Standard, which is denoted by an 'N'		
Unit Title	Unit title gives a clear overall statement about what the incumbent should be able to do.		
Description	Description gives a short summary of the unit content. This would be helpful to anyone searching on a database to verify that this is the appropriate OS they are looking for.		
Scope	Scope is a set of statements specifying the range of variables that an individual may have to deal with in carrying out the function which have a critical impact on quality of performance required.		
Knowledge and Understanding	Knowledge and understanding are statements which together specify the technical, generic, professional and organisational specific knowledge that an individual needs in order to perform to the required standard.		
Organisational Context	Organisational context includes the way the organisation is structured and how it operates, including the extent of operative knowledge managers have of their relevant areas of responsibility.		
Technical Knowledge	Technical knowledge is the specific knowledge needed to accomplish		





Qualifications Pack For Field Technician – Networking and Storage

	specific designated responsibilities.	
Core Skills/ Generic Skills	Core skills or generic skills are a group of skills that are the key to learning and working in today's world. These skills are typically needed in any work environment in today's world. These skills are typically needed in any work environment. In the context of the OS, these include communication related skills that are applicable to most job roles.	
Keywords /Terms	Description	
NOS	National Occupational Standard(s)	
NVQF	National Vocational Qualifications Framework	
NSQF	National Qualifications Framework	
NVEQF	National Vocational Education Qualifications Framework	
QP	Qualifications Pack	



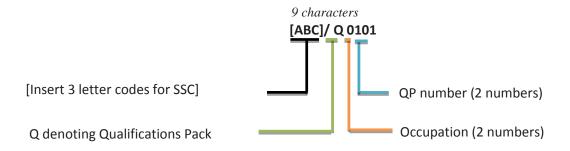




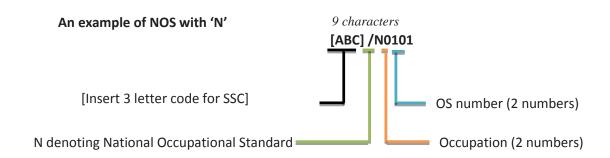
#### **Annexure**

#### **Nomenclature for QP and NOS**

#### **Qualifications Pack**



#### **Occupational Standard**







#### ${\it Qualifications\ Pack\ For\ Field\ Technician-Networking\ and\ Storage}$

The following acronyms/codes have been used in the nomenclature above:

Sub-sector	Range of Occupation numbers
Passive Components	01 - 10
Semiconductors	11 - 20
PCB Manufacturing	21 - 30
Consumer Electronics	31 - 40
IT Hardware	41 - 50
PCB Assembly	51 - 55
Solar Electronics	56 - 60
Strategic Electronics	61 - 65
Automotive Electronics	66 - 70
Industrial Electronics	71 - 75
Medical Electronics	76 - 80
Communication Electronics	81 - 85
PCB Design	86 - 90
LED	91 - 95

Sequence	Description	Example
Three letters	Industry name	ELE
Slash	/	/
Next letter	Whether <b>Q</b> P or <b>N</b> OS	Q
Next two numbers	Occupation code	01
Next two numbers	OS number	01